

CPC**COOPERATIVE PATENT CLASSIFICATION****D05C****EMBROIDERING****TUFTING** (making non-woven fabrics [D04H](#) ; sewing [D05B](#))**Guide heading:****D05C 1/00****Apparatus, devices, or tools for hand embroidering**

D05C 1/02

- . Work frames

D05C 1/04

- . . circular

D05C 1/06

- . Needles specially adapted for hand embroidering (sewing needles [D05B 85/00](#))
Holders for needles or threads

D05C 1/065

- . . {Holders for needles or threads }

D05C 1/08

- . Patterns for hand embroidering
Manufacture thereof

Guide heading:**Embroidering machines** ({embroidering attachments for sewing machines [D05B 3/243](#) }; programme-controlled sewing machines with embroidering capability [D05B 19/00](#), [D05B 21/00](#))**D05C 3/00****General types of embroidering machines**

D05C 3/02

- . with vertical needles

D05C 3/04

- . with horizontal needles

D05C 5/00**Embroidering machines with arrangements for automatic control of a series of individual steps**

D05C 5/02

- . by electrical or magnetic control devices

D05C 5/04

- . by input of recorded information, e.g. on perforated tape

D05C 5/06

- . . with means for recording the information

D05C 7/00**Special-purpose or automatic embroidering machines**

D05C 7/02

- . with accessories for peculiar kinds of embroidery

D05C 7/04

- . for boring or jogging

D05C 7/06

- . for embroidering festoons

- D05C 7/08 . for attaching cords, tapes, bands, or the like
- D05C 7/10 . for separating and burning-off parts of the base fabric ([making patterns or designs on fabrics by singeing or etching D06C 23/02](#))
- D05C 7/12 . for making cotton buttons
- D05C 9/00 Appliances for holding or feeding the base fabric in embroidering machines**
- D05C 9/02 . in machines with vertical needles
- D05C 9/04 . . Work holders, e.g. frames
- D05C 9/06 . . . Feeding arrangements therefor, e.g. influenced by patterns, operated by pantographs
- D05C 9/08 . in machines with horizontal needles
- D05C 9/10 . . Work holders or carriers
- D05C 9/12 . . . Holding or stretching arrangements for the base fabric in embroidery work holders
- D05C 9/14 . . . Suspension or balancing arrangements therefor
- D05C 9/16 . . . Feeding arrangements therefor
- D05C 9/18 . Movement of the base fabric in one of the two directions controlled by embroidering needles
- D05C 9/20 . Movement of the base fabric controlled by the presser feet
Driving arrangements therefor
- D05C 9/22 . Adjusting or registering devices for the base fabric, e.g. for alignment with respect to the needles
- D05C 11/00 Devices for guiding, feeding, handling, or treating the threads in embroidering machines**
Machine needles
Operating or control mechanisms therefor
- D05C 11/02 . Machine needles
- D05C 11/04 . . Arrangements for fastening or inserting in bars or carriers
- D05C 11/06 . . Needle-driving or control mechanisms
- D05C 11/08 . Thread-tensioning arrangements { ([inside the shuttle D05C 11/18](#)) }
- D05C 11/10 . . Guides, e.g. resilient
- D05C 11/12 . . Rollers
- D05C 11/14 . . Stop motions responsive to thread tension or breakage
- D05C 11/16 . Arrangements for repeating thread patterns or for changing threads
- D05C 11/18 . Shuttles; {[Shuttle holders](#); [Shuttle driving arrangements](#) }

- D05C 11/20 . Arrangements for cutting the needle or lower threads
- D05C 11/22 . Arrangements for cutting-out broken threads
- D05C 11/24 . incorporating devices for dyeing or impregnating the threads
- D05C 13/00** **Auxiliary devices incorporated in embroidering machines, not otherwise provided for**
Ancillary apparatus for use with embroidering machines
- D05C 13/02 . Counting, measuring, indicating, warning, or safety devices
- D05C 13/04 . Lubricating devices
- D05C 13/06 . Apparatus for filling or threading shuttles
- D05C 15/00** **Making pile fabrics or articles having similar surface features by inserting loops into a base material** ([layered products B32B](#) ; [non-woven pile fabrics D04H 11/00](#))
- D05C 15/02 . Rooting of hair in doll heads or wigs ([wigs A41G 3/00](#); [hair or wigs for doll heads A63H 3/44](#))
- D05C 15/04 . Tufting
- D05C 15/06 .. Hand tufting needles {[Hand-held tufting apparatus](#) }
- D05C 15/08 .. Tufting machines { ([D05C 15/06 takes precedence](#)) }
- D05C 15/10 ... operating with a plurality of needles, e.g. in one row
- D05C 15/12 in more than one row
- D05C 15/14 ... Arrangements or devices for holding or feeding the base material ([D05C 15/26 takes precedence](#))
- D05C 15/145 {[Needle plates](#) }
- D05C 15/16 ... Arrangements or devices for manipulating threads ([D05C 15/26 takes precedence](#))
- D05C 15/18 Thread feeding or tensioning arrangements
- D05C 15/20 Arrangements or devices, e.g. needles, for inserting loops
Driving mechanisms therefor
- D05C 15/22 Loop-catching arrangements, e.g. loopers
Driving mechanisms therefor
- D05C 15/24 Loop cutters
Driving mechanisms therefor
- D05C 15/26 ... with provision for producing patterns
- D05C 15/28 by moving the base material laterally
- D05C 15/30 by moving the tufting tools laterally
- D05C 15/32 by altering the loop length
- D05C 15/34 by inserting loops of different nature or colour
- D05C 15/36 by selective cutting of loops

D05C 15/38

- . by passing thread material in zig-zag manner through spaced layers of base material and subsequently cutting along a central plane

D05C 17/00

Embroidered or tufted products

Base fabrics specially adapted for embroidered work

Inserts for producing surface irregularities in embroidered products ([layered products B32B](#) ; [non-woven pile fabrics D04H 11/00](#))

D05C 17/02

- . Tufted products

D05C 17/023

- .. {characterised by the base fabric }

D05C 17/026

- .. {characterised by the tufted pile surface }